

FIGURE 1

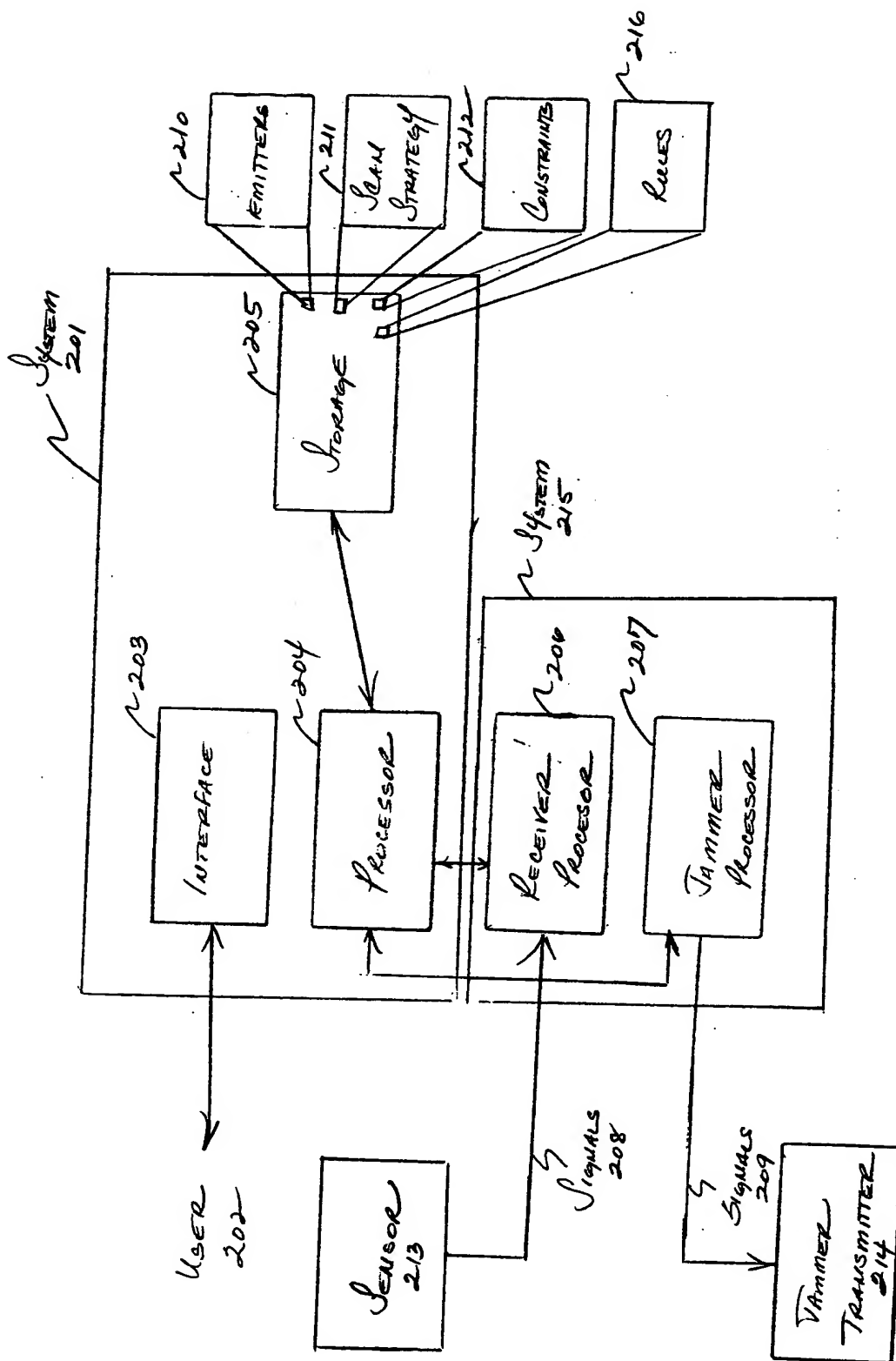
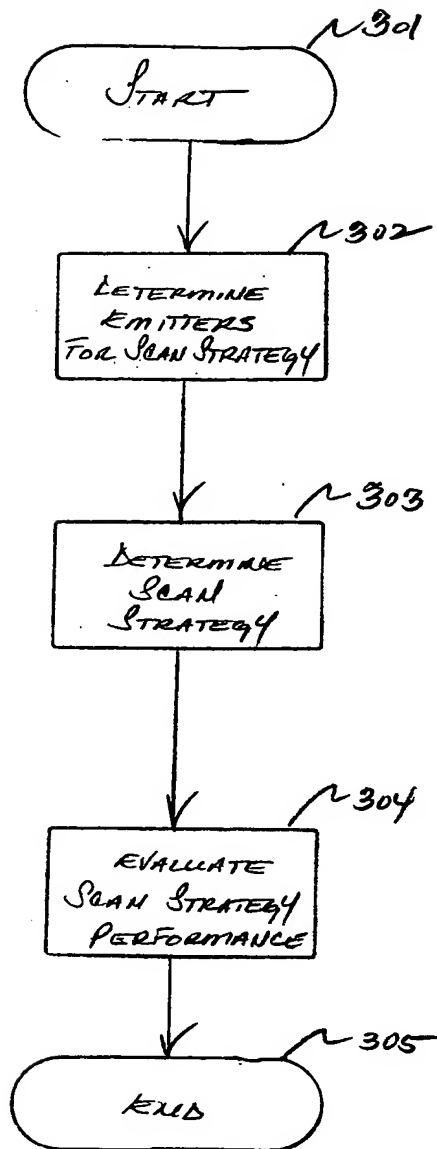


Figure 2



PROCESS
300

FIGURE 3

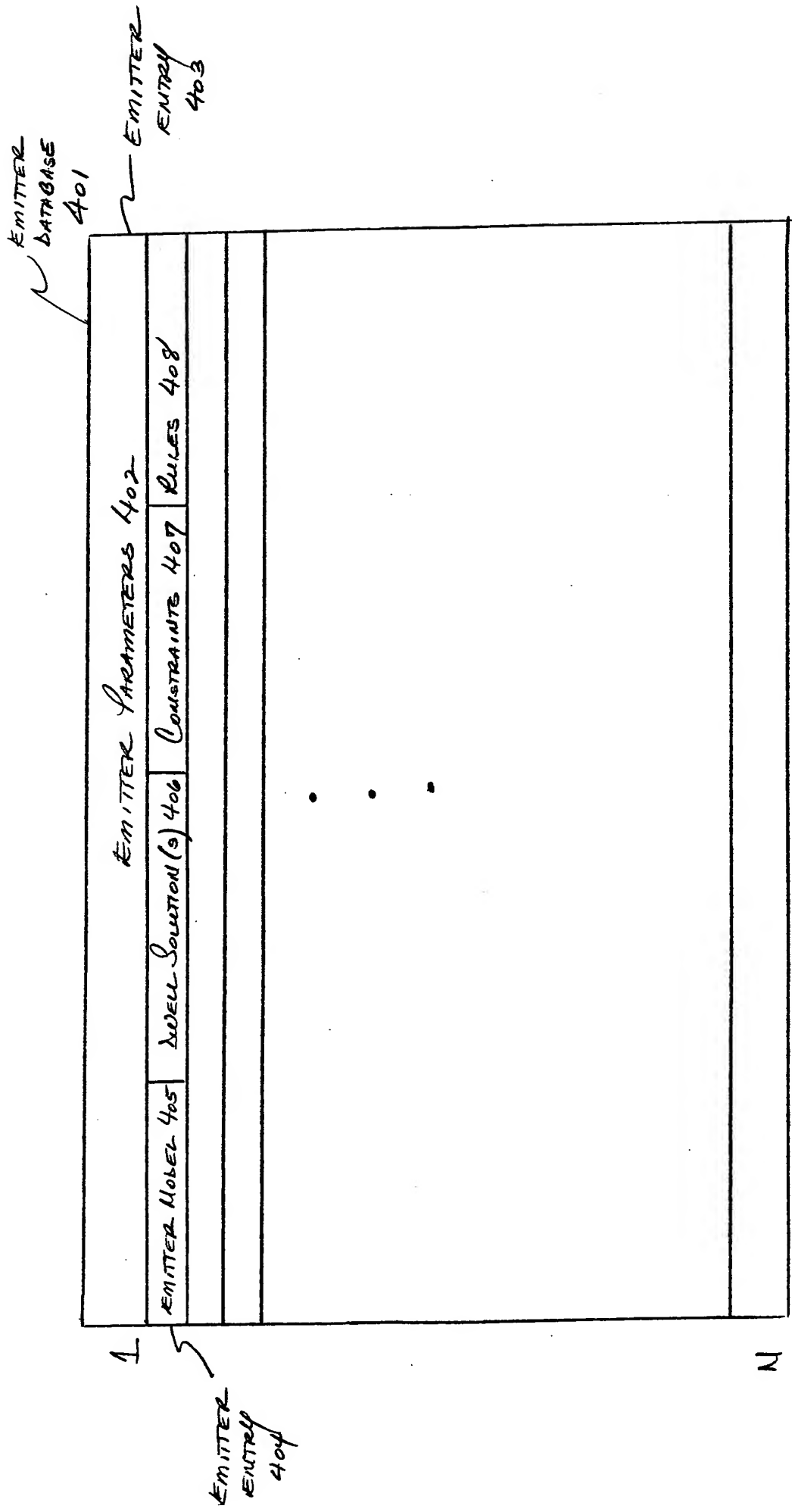


FIGURE 4

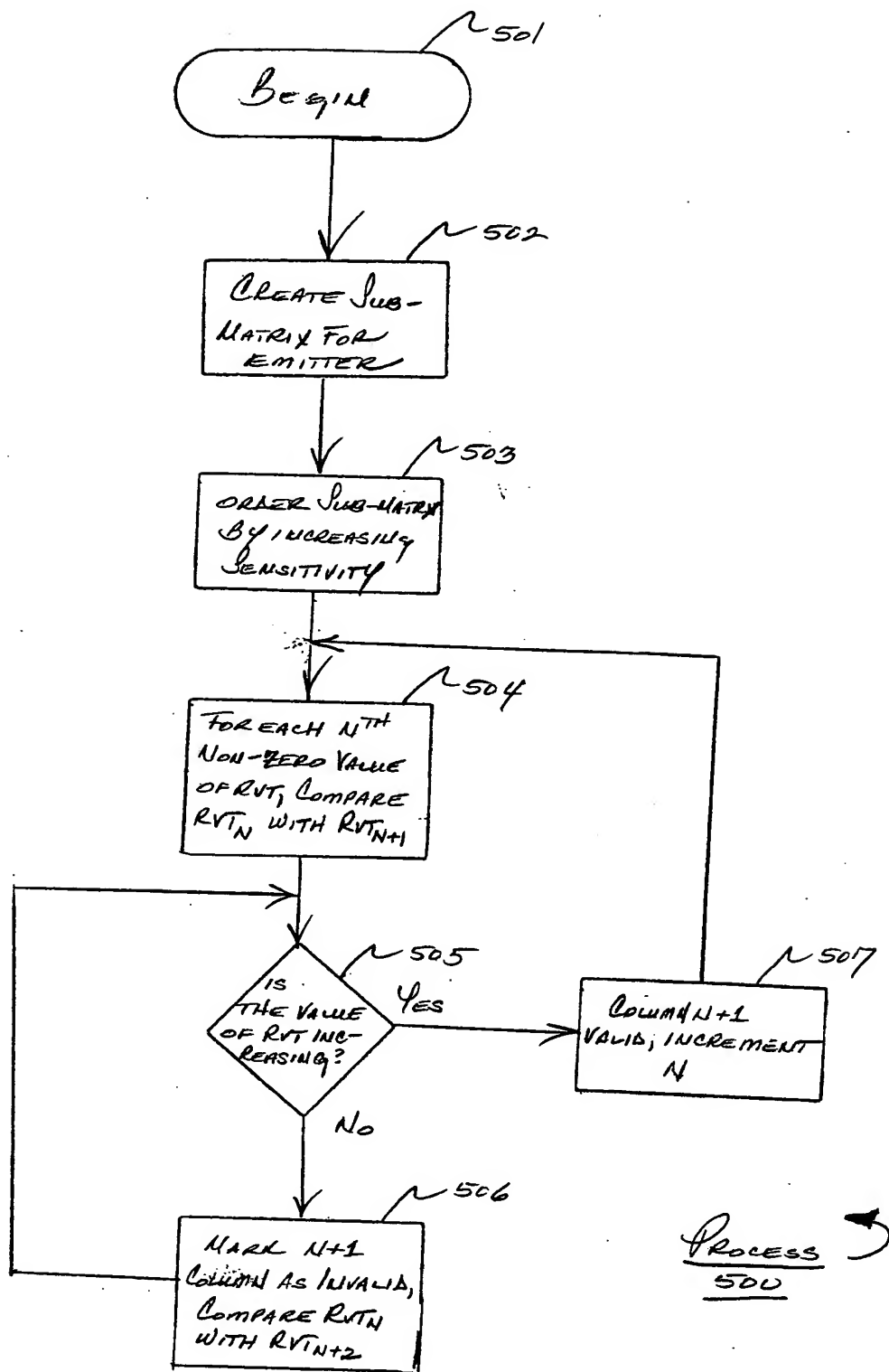


FIGURE 5

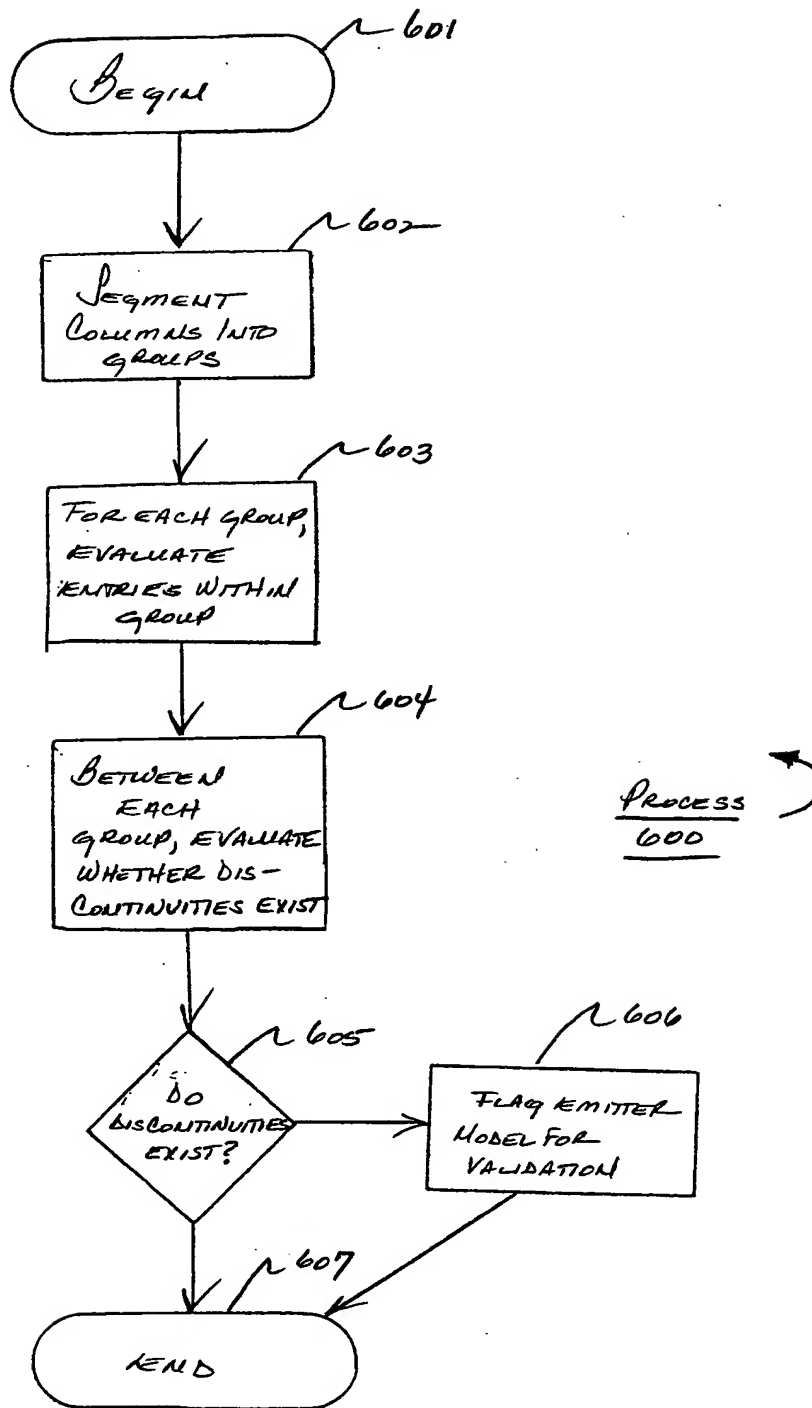


FIGURE 6

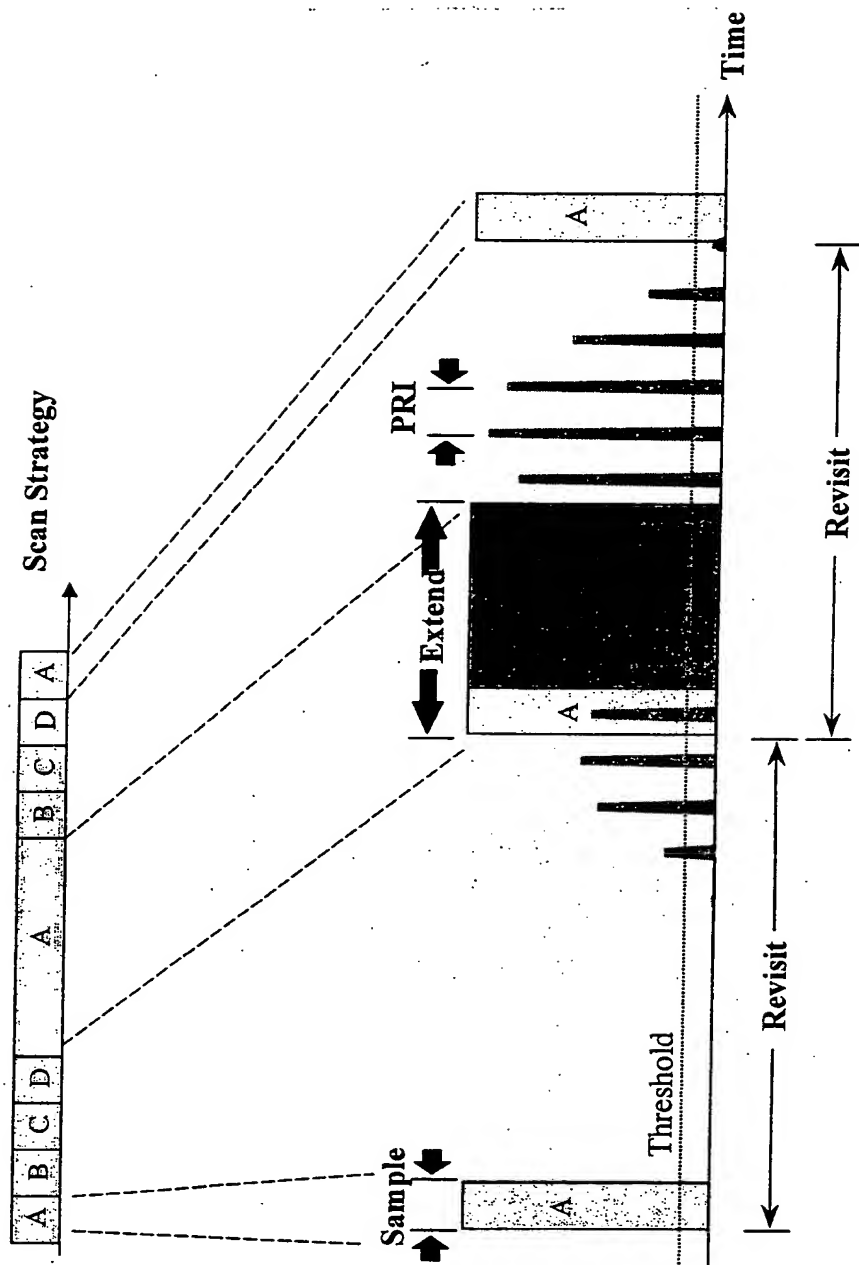


Figure 17

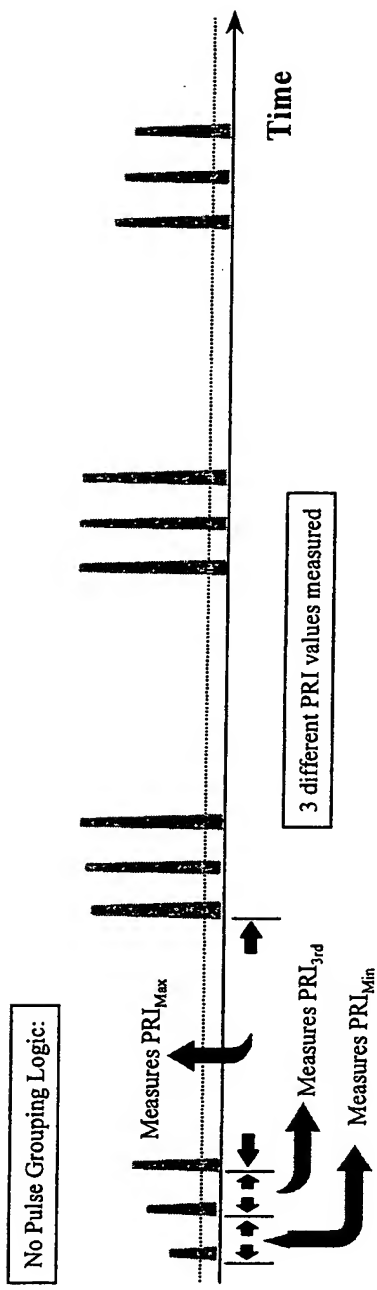


Figure 8A

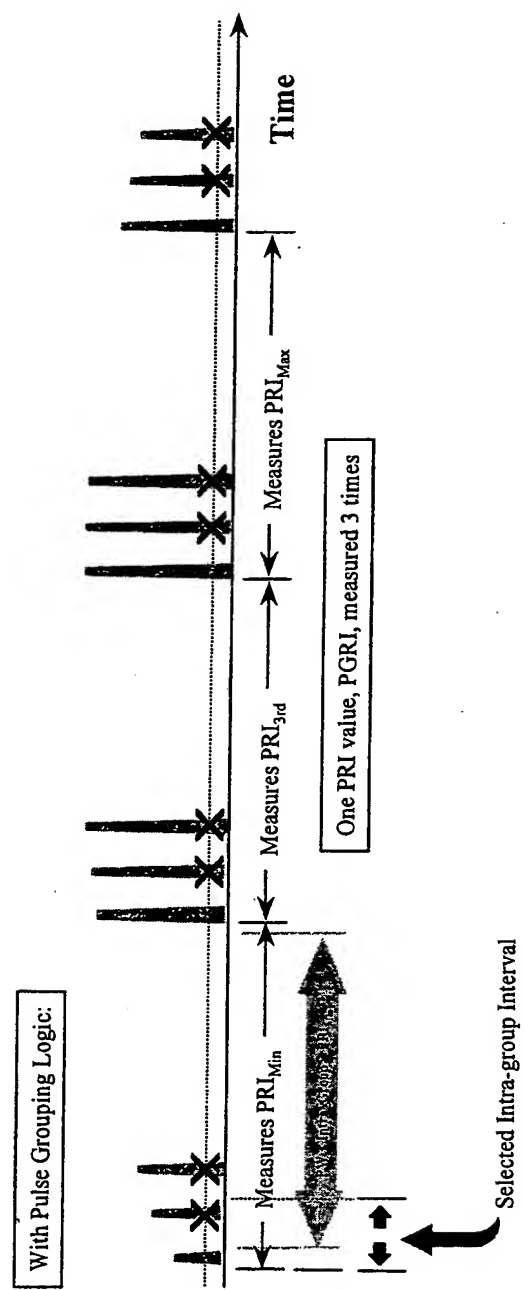


Figure 8B

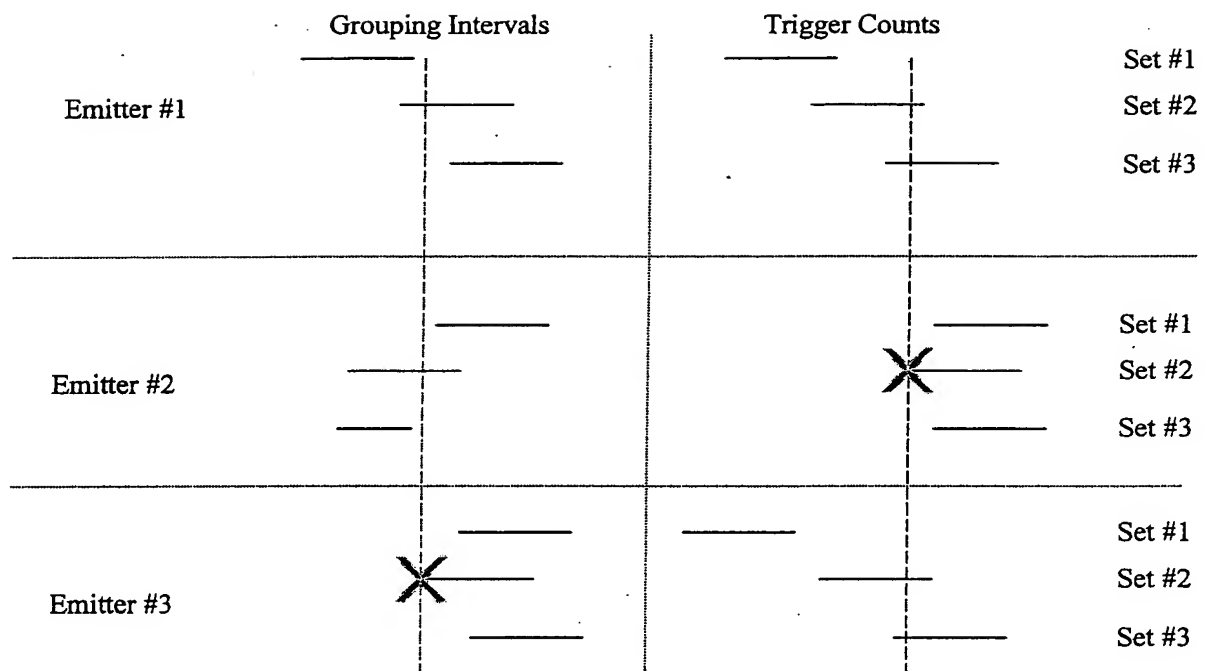


FIGURE 9

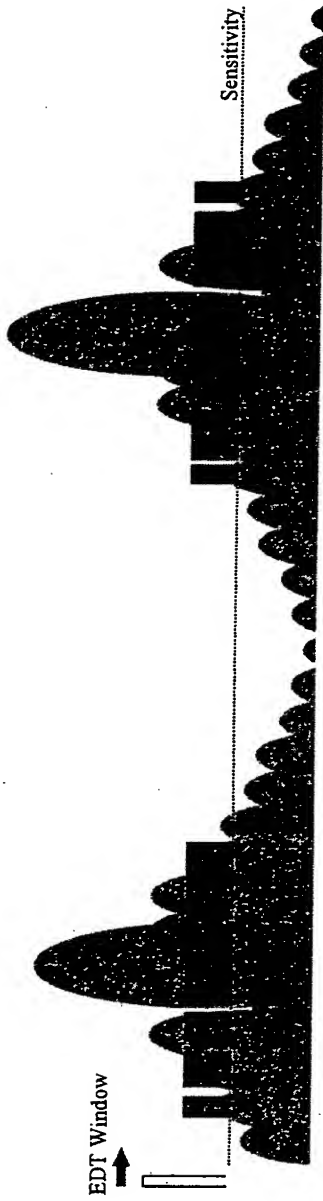


Figure 10A

Discrete Illuminations (TIBS)

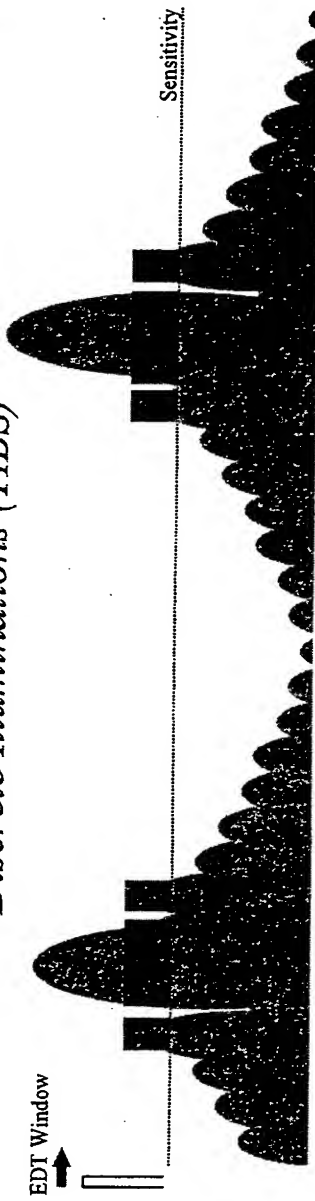


Figure 10B

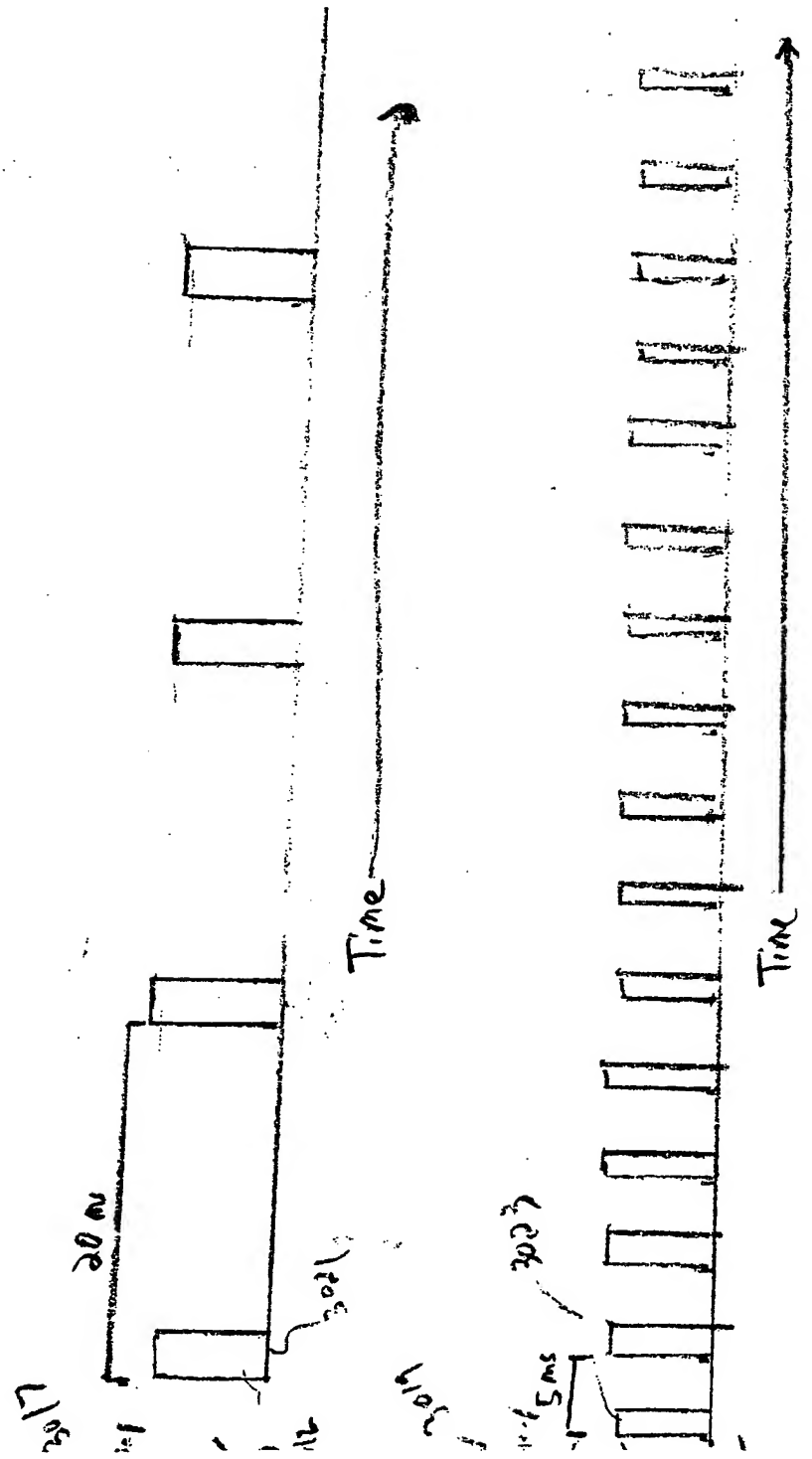
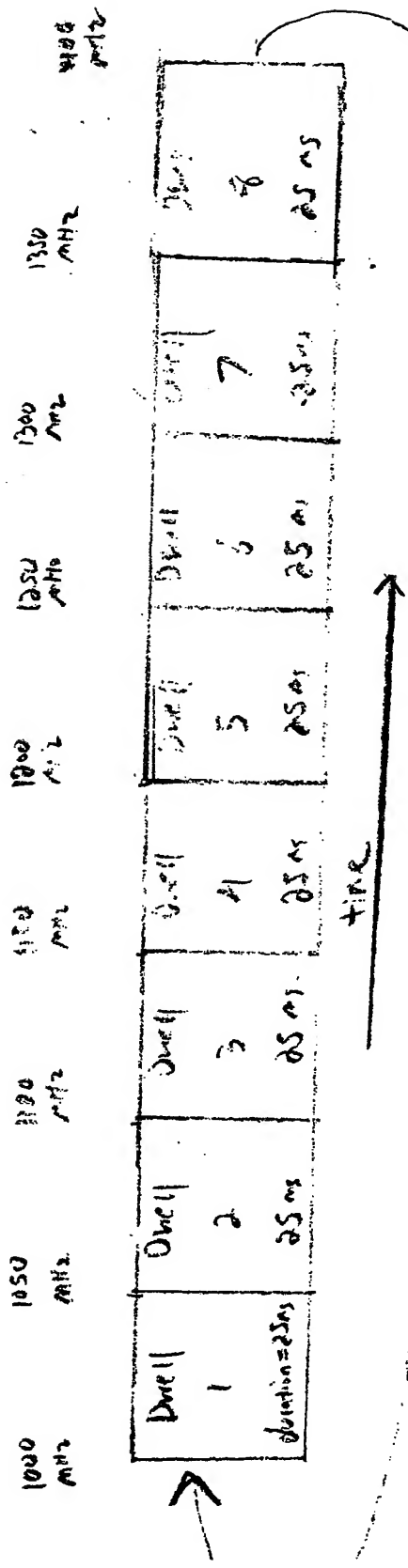
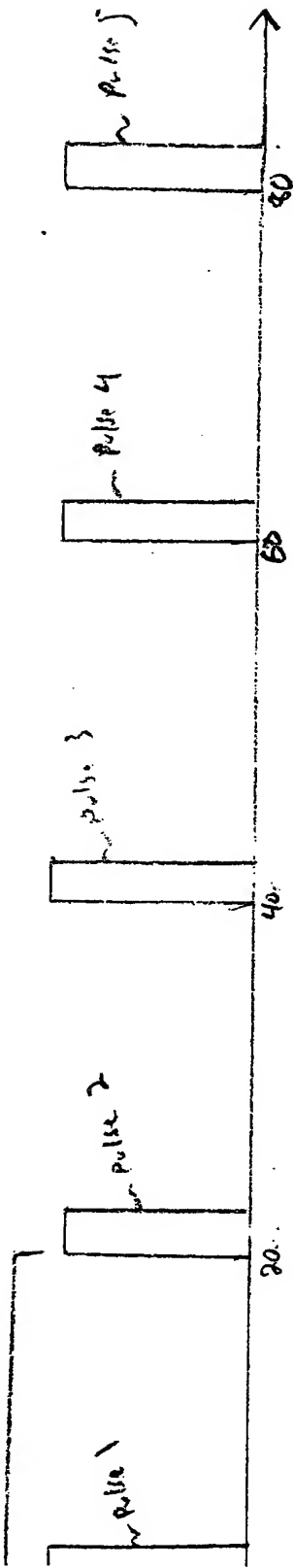
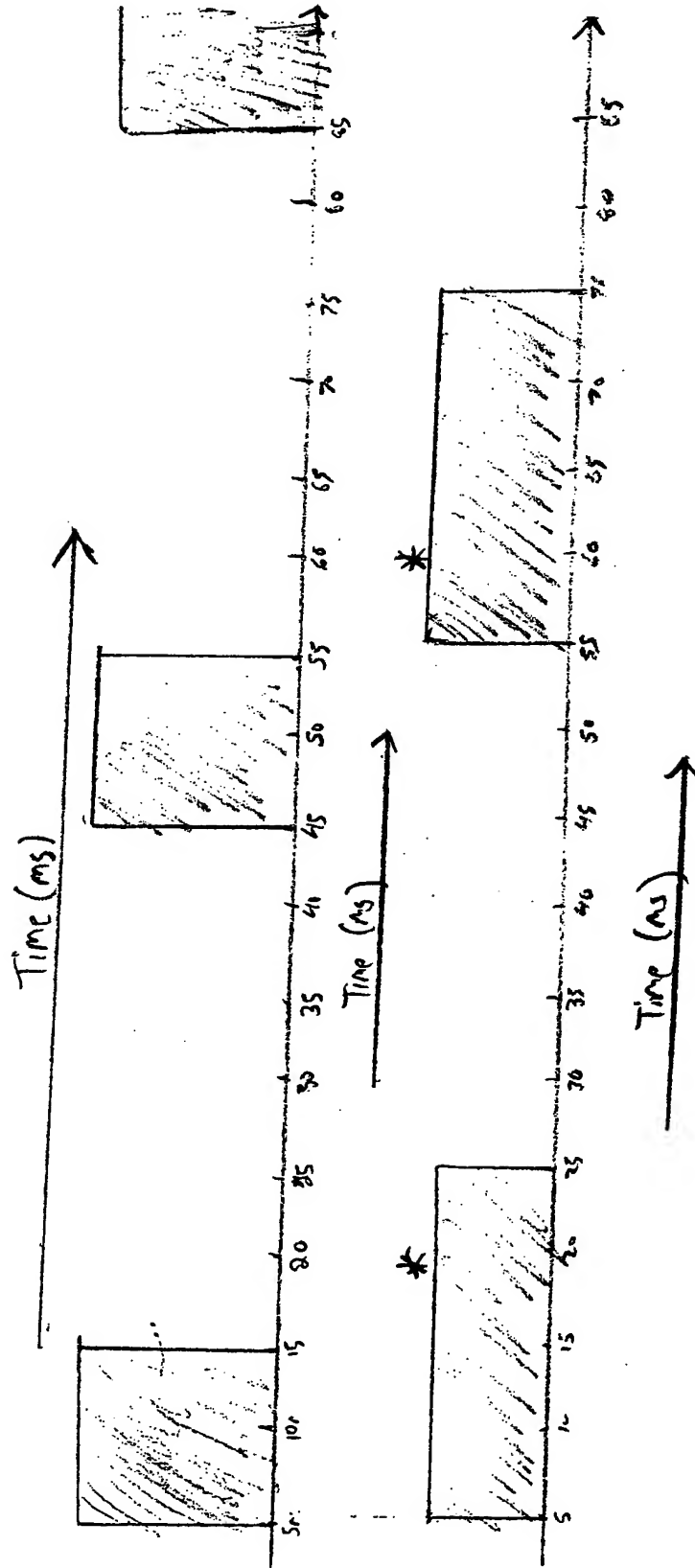


Figure 11

PRI = 20ns



Emitter 3109



Solution 1

Drill Duration = 10ns
Reset Time = 40ms

Solution 2

Drill Duration = 20ns
Reset Time = 50ms

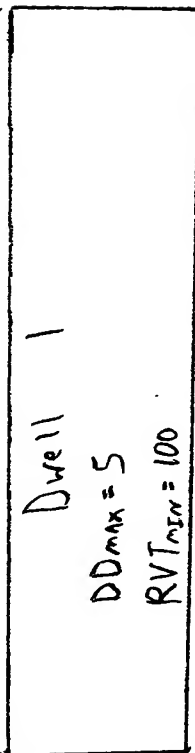
Figure 12

4000

Emitter Name	RF Max (MHz)	RF Min (MHz)	MDT (ms)	RF Max (MHz)	RF Min (MHz)	MDT (ms)
E1	1300	1000	3	1300	1000	3
E2	1350	1220	5	1350	1220	5
E3	1410	1510	2	1410	1510	2
E4	1860	1730	4	1860	1730	4

Figure B

1000 1250



Solution 1

$$\text{Cost} = \frac{5}{100} = 0.05$$

1000 1050 1100 1150 1200 1250

Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9
DDmax 3	DDmax 3	DDmax 3	DDmax 3	DDmax 3	DDmax 3	DDmax 3	DDmax 5	DDmax 5
RVTmax 650	RVTmax 650	RVTmax 650	RVTmax 650	RVTmax 650	RVTmax 650	RVTmax 650	RVTmax 650	RVTmax 650
Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost

$$\frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{5}{650} + \frac{5}{650} =$$

Total
Cost

$$\frac{31}{650} \approx 0.048$$

Solution 2

Figure 14A

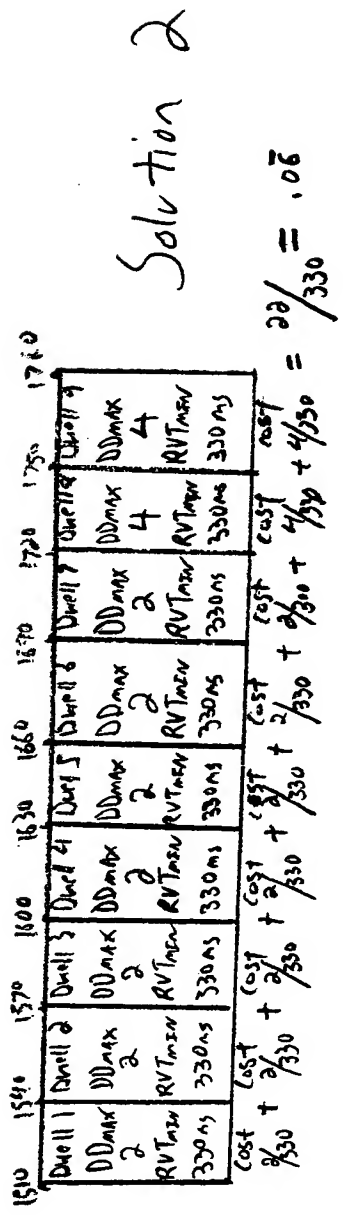
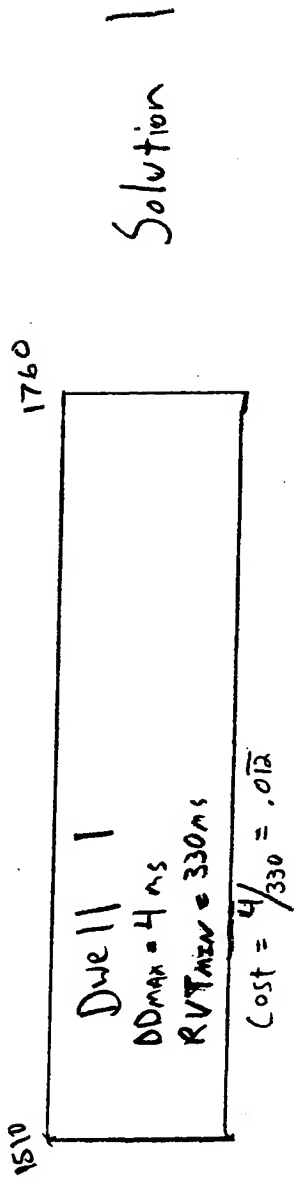


Figure 14B

Figure 15

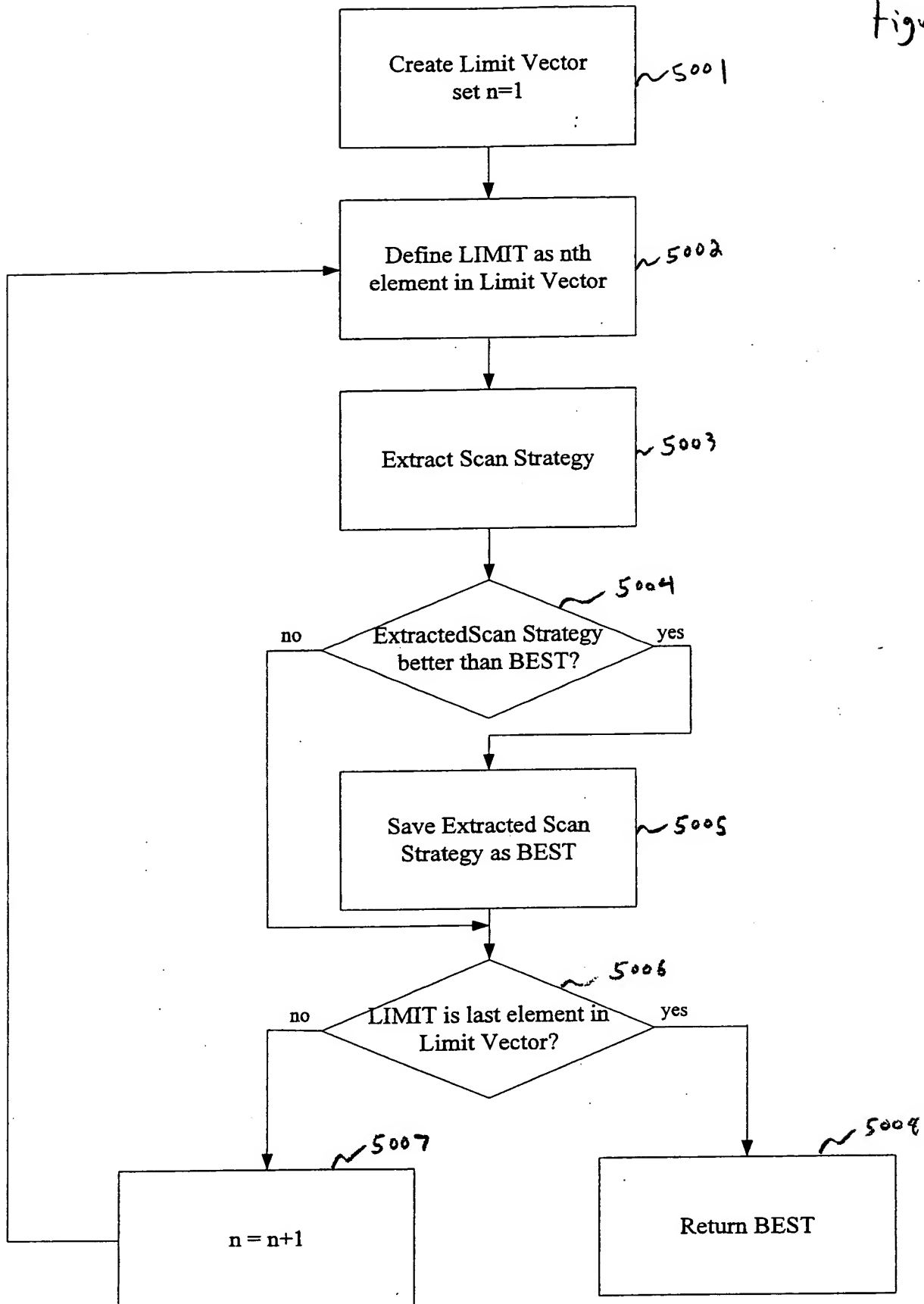
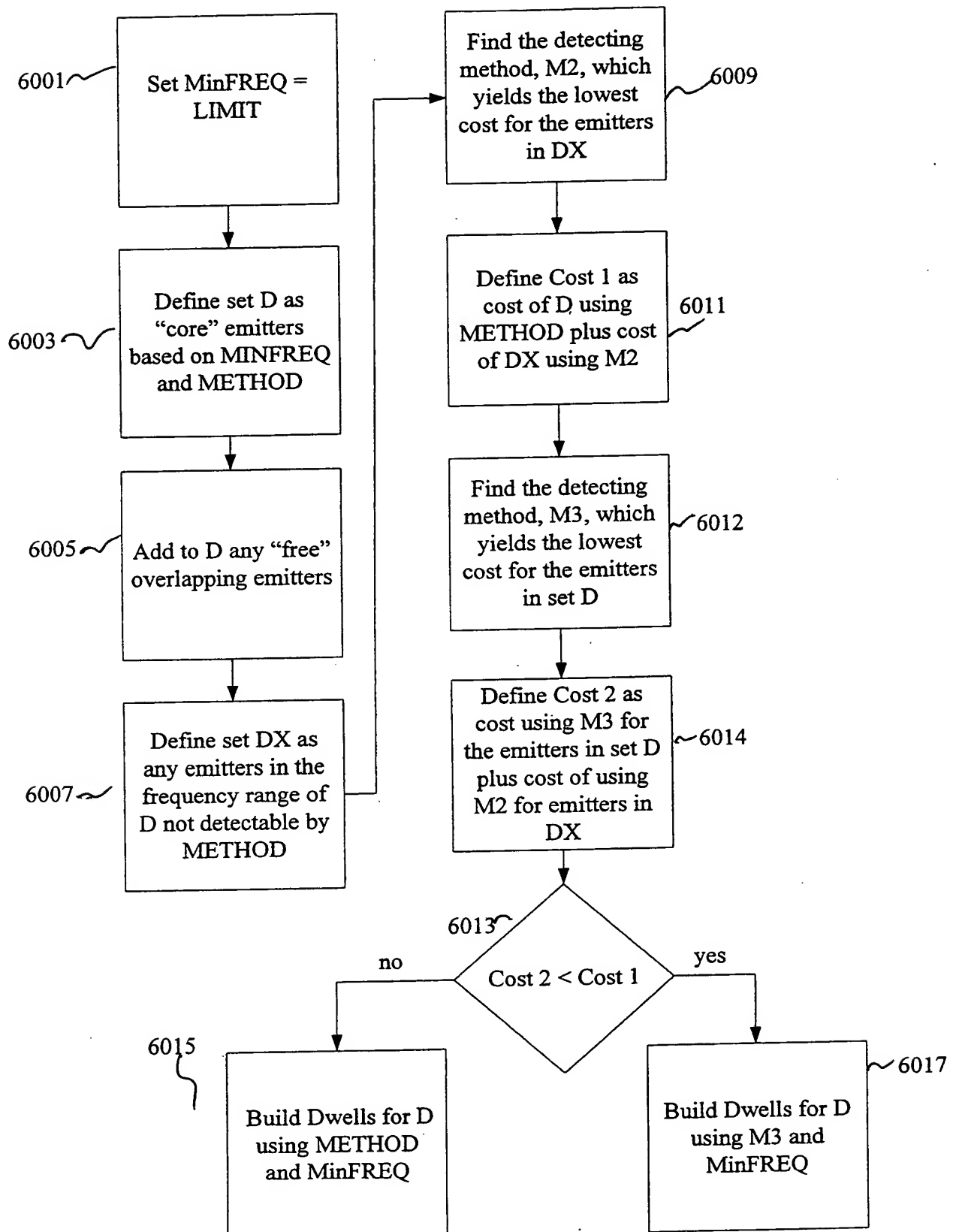


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

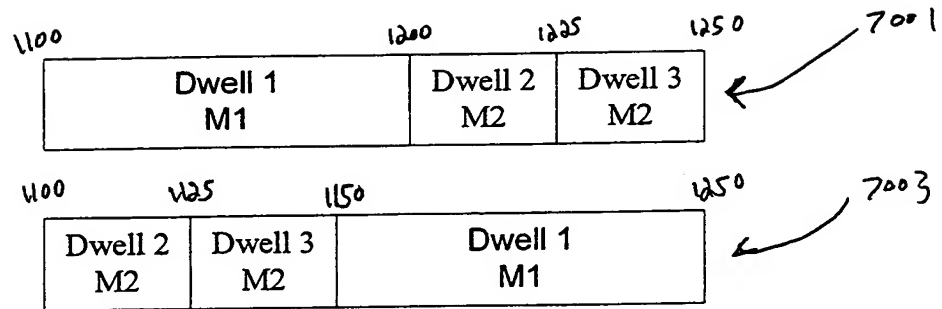
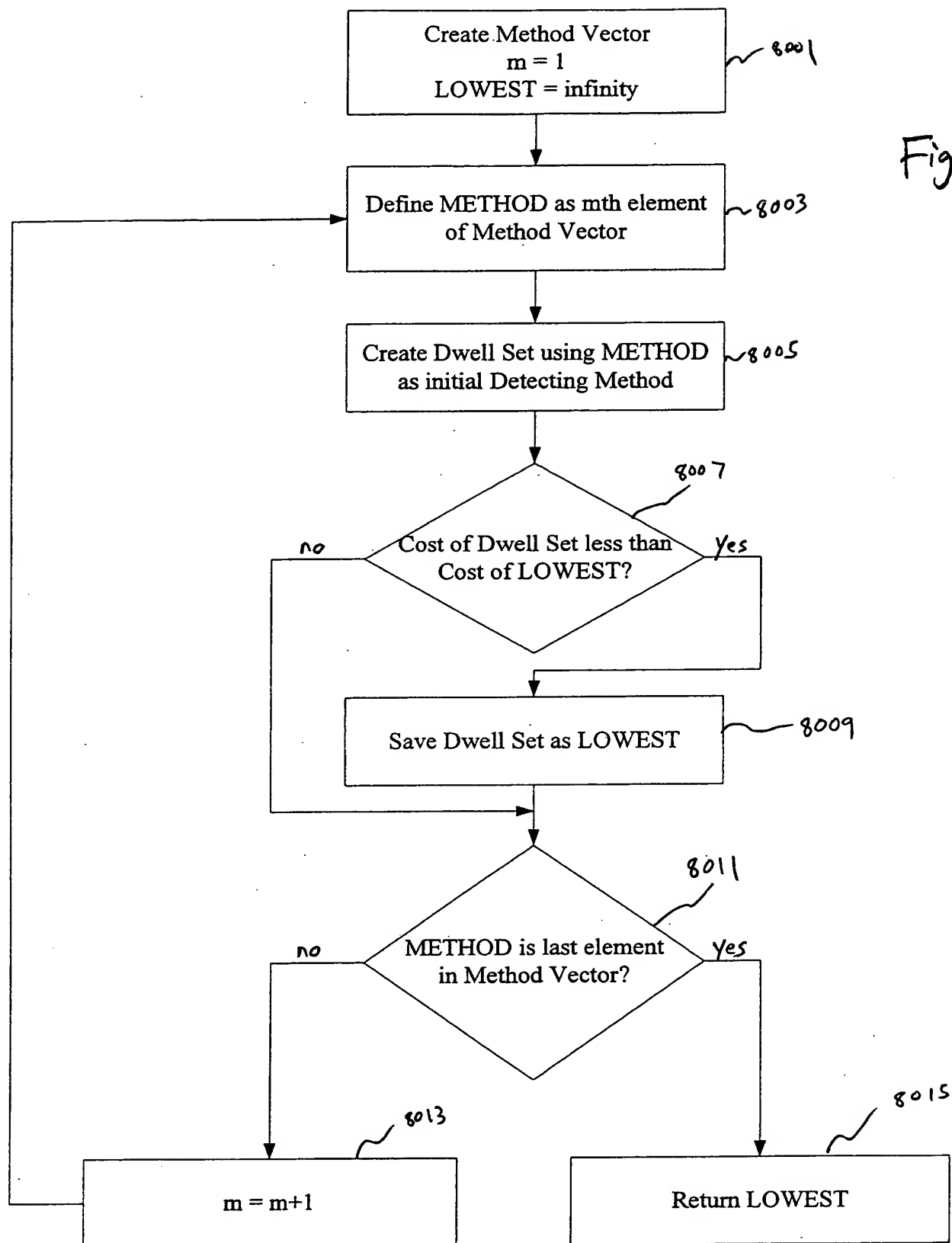


Figure 17

Figure 18



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

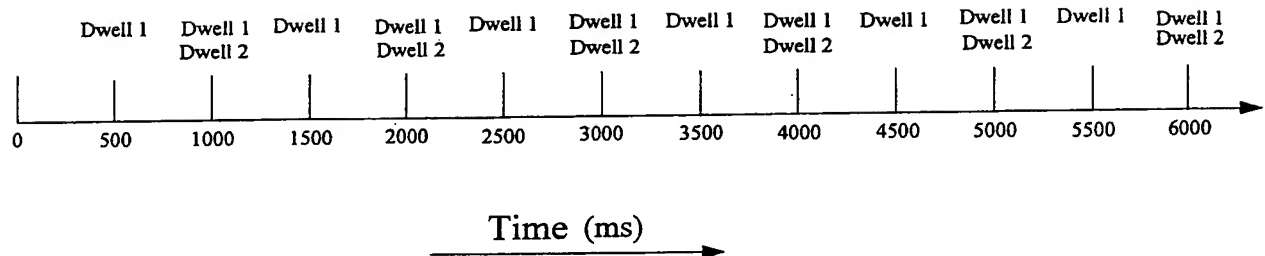


Figure 21

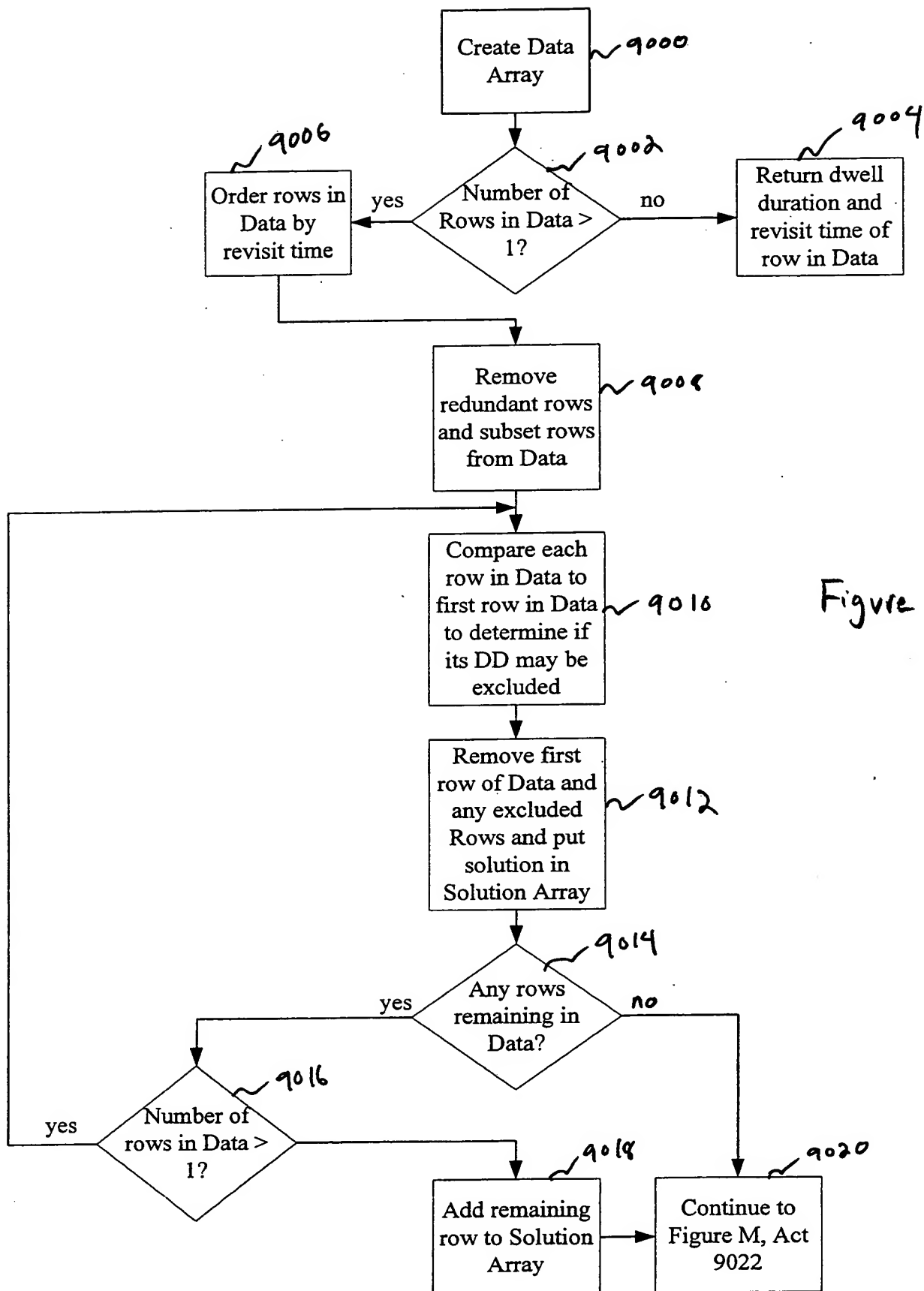


Figure 22

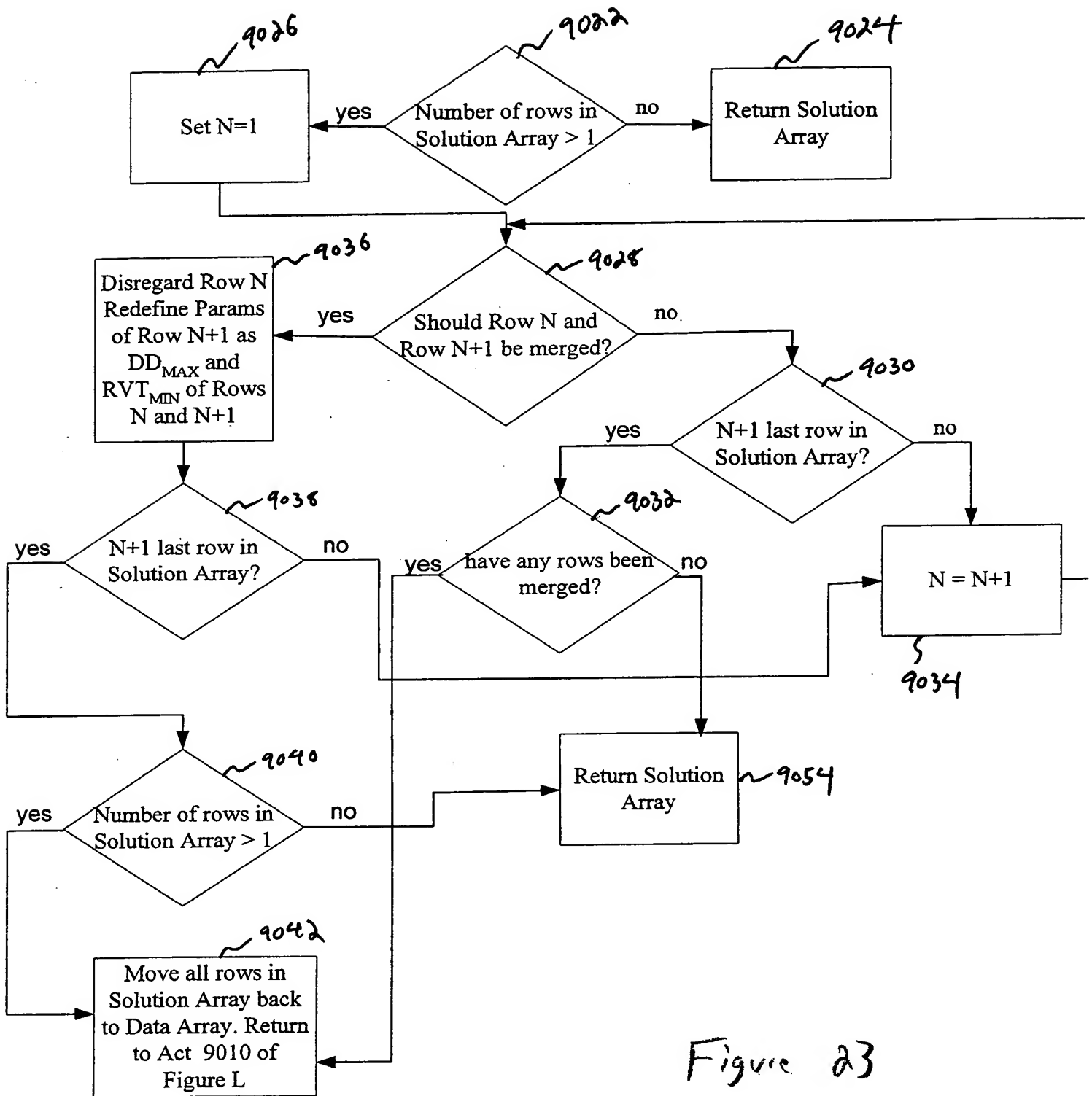


Figure 23

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048
9049
9050

Figure 24B

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

9051
9052

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

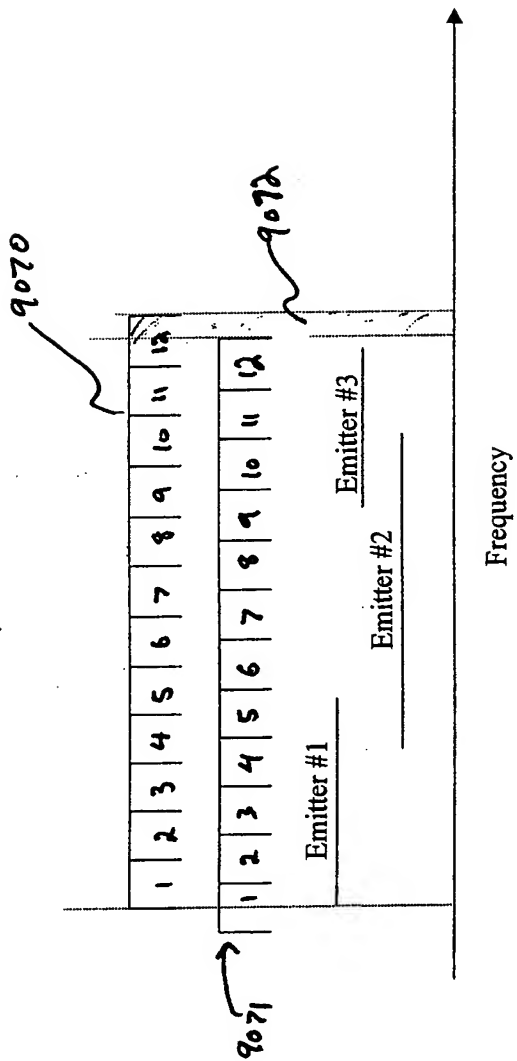


Figure 25

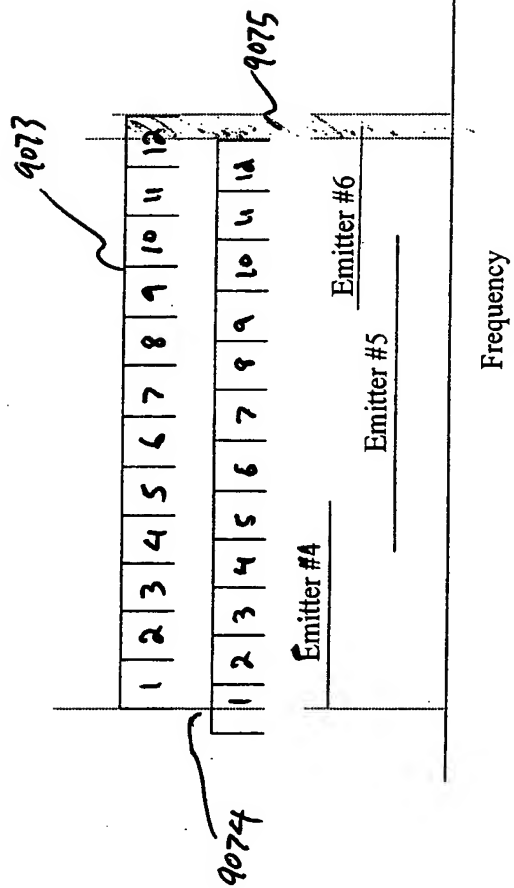


Figure 26

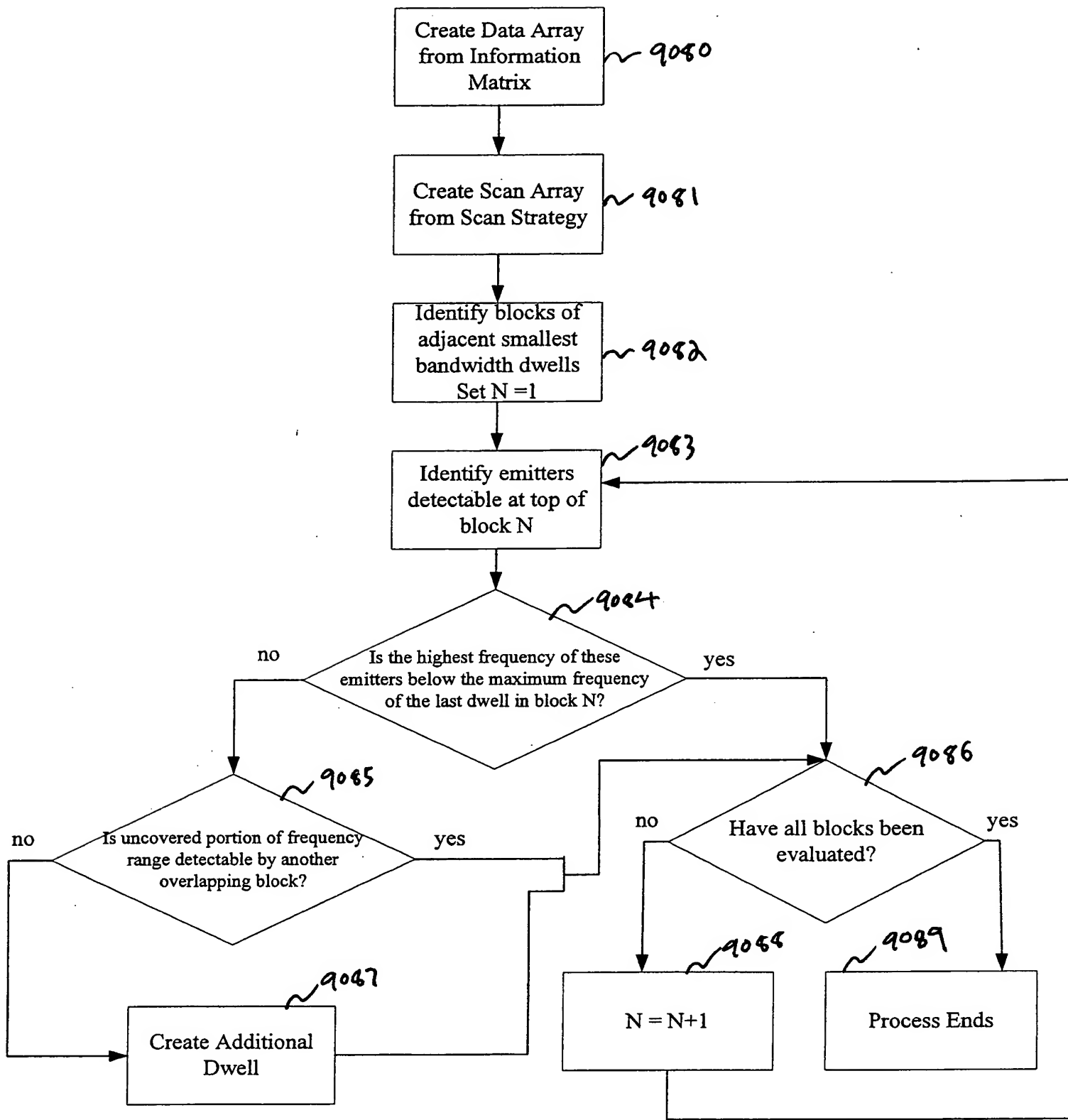


Figure 27

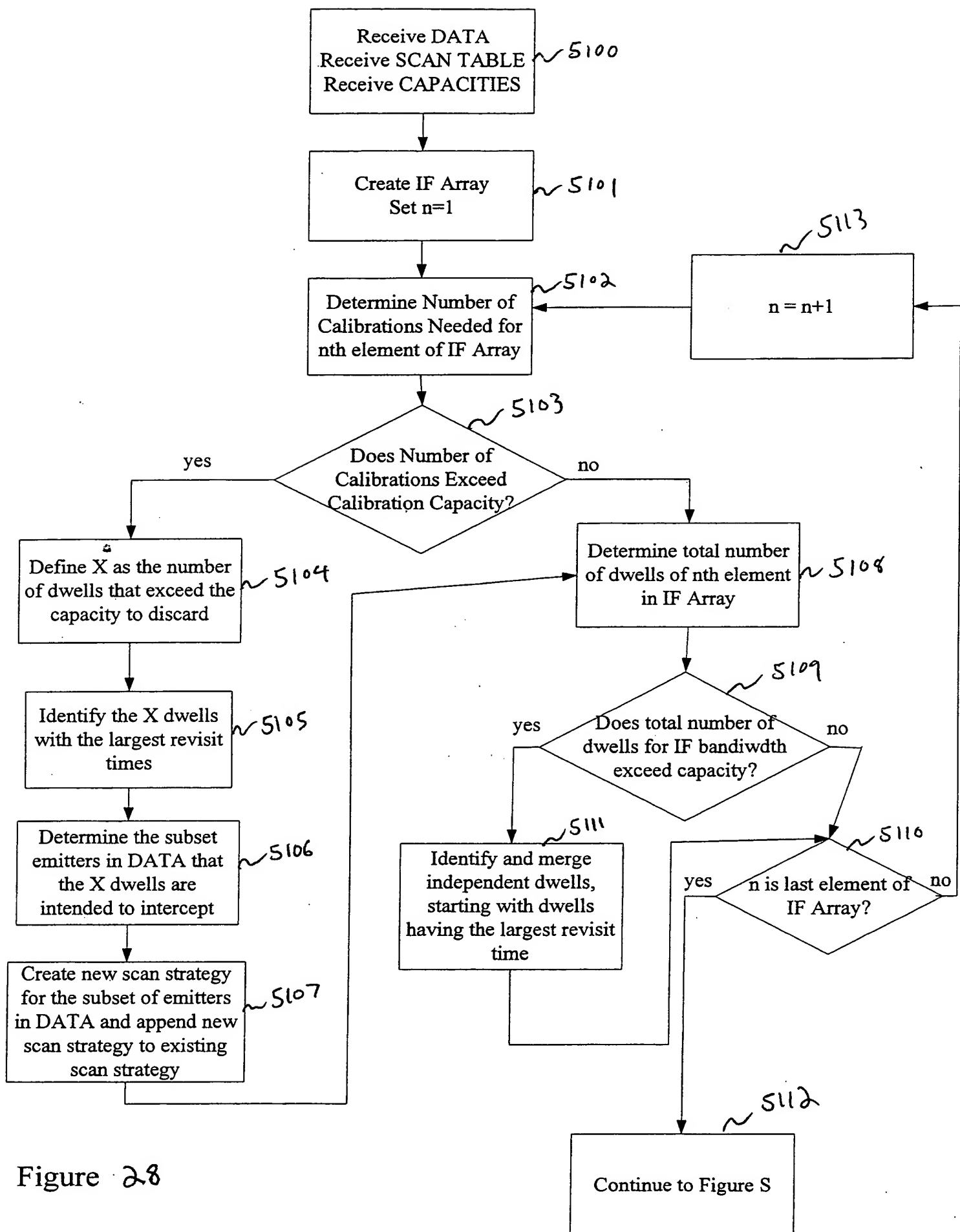


Figure 2.8

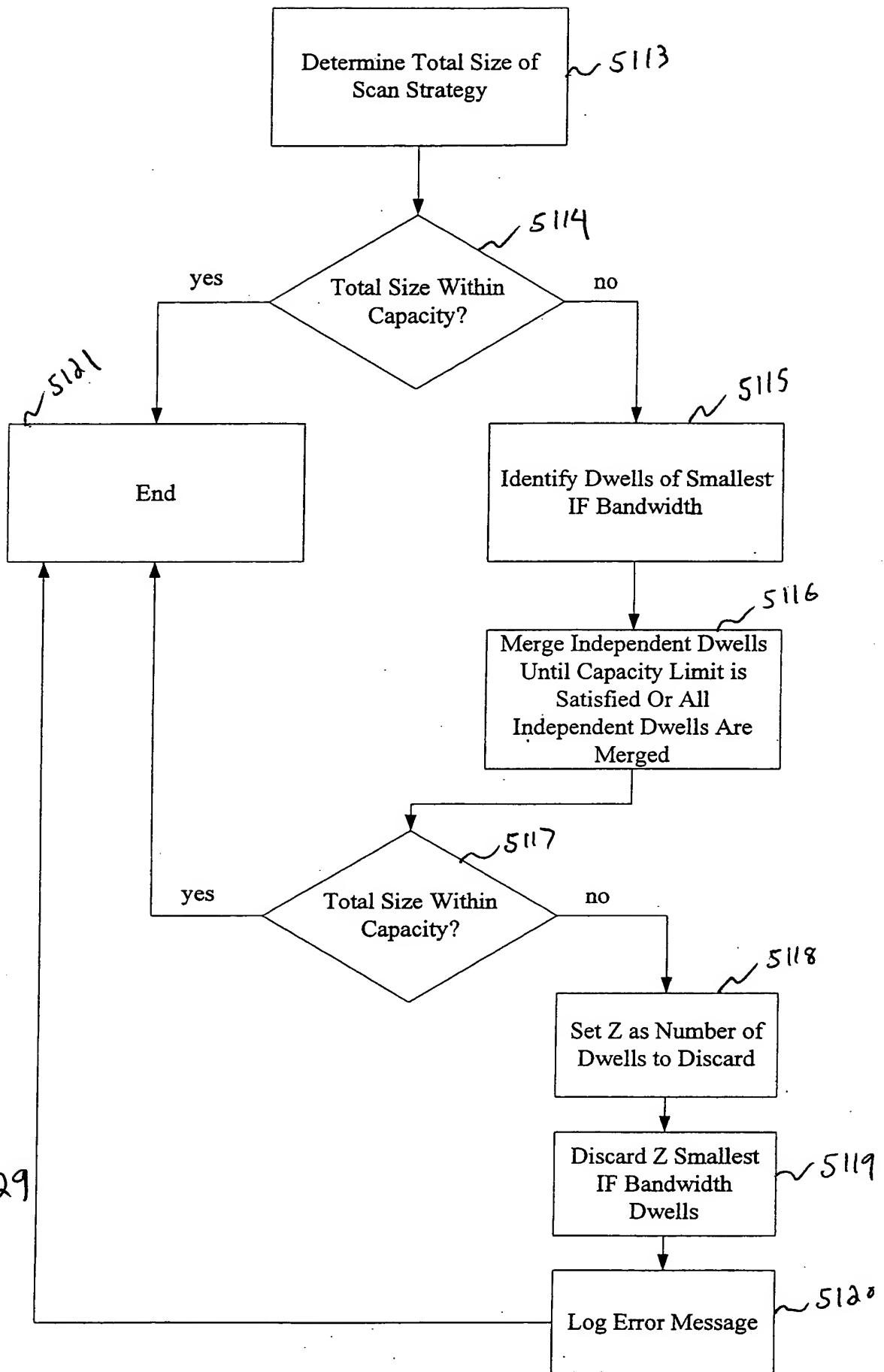


Figure 29

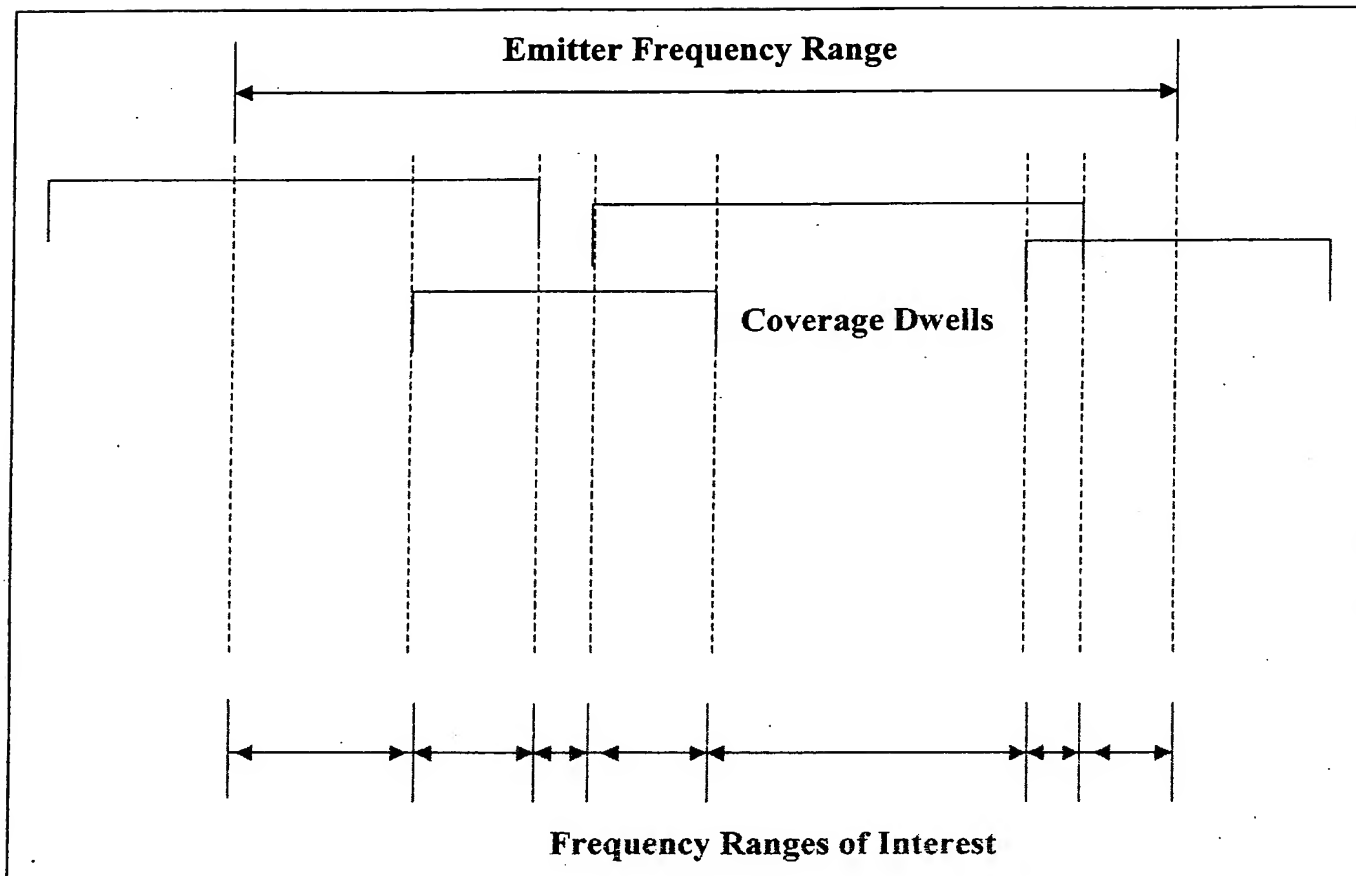


Figure 30

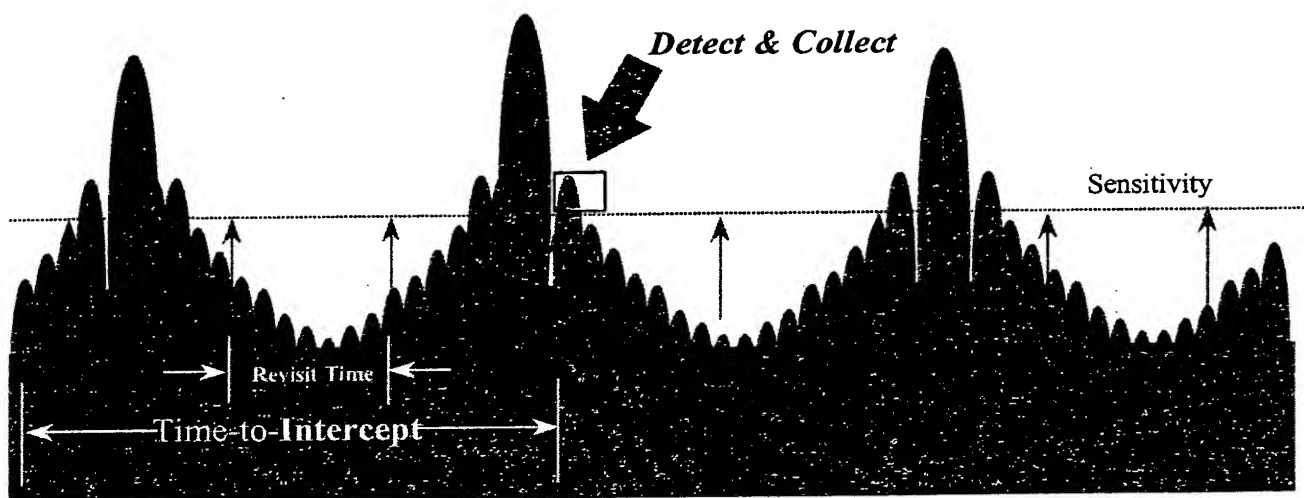


Figure 31

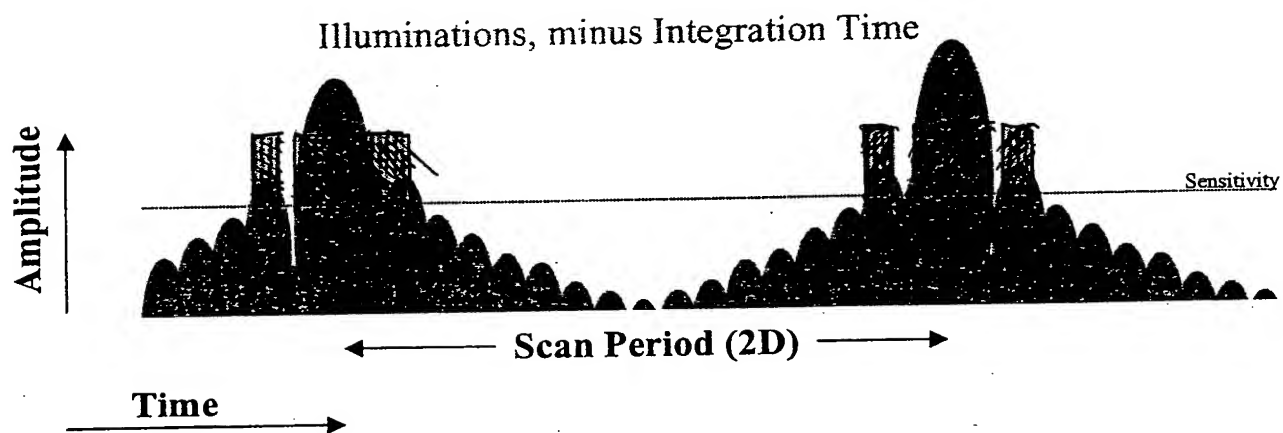


Figure 3a